











COST/TIME SAVINGS




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ACTIVITY	CHALLENGE	IMPROVEMENT	COST SAVINGS	TIME/LABOR SAVINGS
NAS JRB, Willow Grove, PA	Deteriorated local exhaust ventilation in paint spray booth. 	Removal of paint residues from fans and ductwork. Establishment of formal preventive maintenance plan.	Extended life of paint-spray booth's local exhaust ventilation system. Reduced time ground support equipment out of service.	Decreased time required to remove corrosion and to repaint ground support equipment.
NASNI, San Diego, CA	Repairing number 3 doors on FA-18 aircraft using hand held power tools. 	Fixture to hold door in place and allow partial rotation and reduced-vibration powered hand tools.	\$181,300 over ten years	Reduced time to repair door from 15 to 11 days.


Public Works Center, Philadelphia, PA	<p>Paint spray booth needed updated ventilation system.</p> 	New exhaust system, improved lighting, installation of pressure gauge.	Avoidance of exposure to airborne contaminants from paints and solvents with resulting workers' compensation costs.	Time to complete spray painting tasks cut in half.
SIMA San Diego, CA	<p>Manual transporting of heavy, awkward portable welding equipment.</p> 	Developed fixture that increases maneuverability and distributes the load between two people.	Reduced risk of injuries and WMSDs of the back, arms, and shoulders with resulting workers' compensation costs.	<p>Decreased time getting to and from jobsites.</p> <p>Decreased time needed to recover from fatigue before starting welding tasks.</p> <p>Increased welding efficiency.</p>
Naval Hospital, NAS Rota, Spain	<p>Streamline cataloging of hazardous materials.</p> 	Industrial hygienists use cross-referenced databases to assess health risks associated with HM.	Avoidance of future HM exposure and injury with resulting workers' compensation costs.	Industrial hygienists complete HM risk assessments more rapidly and are available to spend time on other services.

PWC San Diego, CA	<p>Accessing roll-offs and redistributing HW.</p> 	Remote control <i>hazardous waste rake</i> attached to forklift	\$5,200.00 to \$8,800.00 annually per facility	Reduction in time from 15 to 20 minutes to 2 to 3 minutes per HW redistribution
SIMA, Coronado, CA	<p>Grinding with heavy, awkward, strongly vibrating conventional grinder.</p> 	Substitution of pneumatic grinder.	Decreased risk of irreversible HAVS and carpal tunnel syndrome with resulting workers' compensation costs	Time to complete repair projects reduced by 25%
Branch Medical Clinic, Pearly Harbor, HI	<p>Muskuloskeletal injuries account for 42% of all medical releases of active duty Navy members.</p> 	Sports Medicine and Rehabilitation Therapy (SMART) Centers committed to return to readiness programs	Return to active duty in timely manner. Avoidance of future injuries through education.	Since opening in July 2002 successfully returned 78% of patients to active duty status within 30 days of visit to SMART vice prior 90 day process

NNSY, Norfolk, VA	<p>Manually pulling electrical cable weighing 7 lbs/linear ft.</p> 	Mechanically assisted cable pulling process	Decreased risk of injuries. Cost reduction up to 50%; combined savings over \$118,000.00.	Labor reduction from 30 - 70 workers to 7 - 12 workers per cable pull
PWC, San Diego, CA	<p>Manually pulling heavy tarps over dump truck beds.</p> 	Automatic system for covering truck beds	Decreased injuries and cumulative trauma disorders. Direct savings of \$74,970.00 annually	Increased productivity from 25 minutes/truck to 10 minutes/truck

Various	<p>Mobile cranes collapse when load limit exceeded.</p> 	Load Moment Indicators or Load Indicating Devices installed on 132 mobile cranes at 28 locations	Avoidance of serious injuries and destruction of millions of dollars worth of equipment and materials	Decreased downtime by reducing the number of crane-related mishaps and personnel injuries
PWC, San Diego, CA	<p>Manual cable cleaning and lubrication.</p> 	Automated cable lubrication system	Reduced annual cable cleaning costs by 89%, from about \$320,000.00 to about \$34,000.00	Increased efficiency and decreased downtime by reducing incidence of hand injuries among cable cleaners
NUWC, Newport, RI	<p>Manually transferring towed array test cable reels weighing up to 7,000 lbs.</p> 	Mechanical cable reel handler	Avoided approximately \$67,500.00 annually on about 225 reels/ year	Labor reduction from of 4 - 6 workers to 1 worker to transfer a cable reel, increasing efficiency and reducing risk of injuries

NADEP, North Island, CA	<p>Vibration from rivet guns exposed workers to serious risk of hand-arm vibration syndrome.</p> 	Remote control device reduces transmission of rivet gun vibration to user's hands, arms, and upper body	Reduced annual costs of F/A-18 maintenance by about \$29,669.00	Eliminated risk of work-related vibration injuries and reduced turn around time on F/A-18 aircraft by 20 hours/unit
SIMA, Norfolk, VA	<p>Off-site training of new forklift operators and periodically re-qualifying experienced operators.</p> 	Developed in-house forklift operator training classes	Estimated annual direct cost avoidance of \$50,600.00	Decreased downtime by eliminating need to send forklift operators off-site for periodic forklift training
NFESC, Port Hueneme, CA	<p>OSHA ventilation requirements for spray-paint operations costly and impractical for corrosion control and paint hangars.</p> 	Obtained revised OSHA local exhaust ventilation requirements for corrosion control and paint hangars	Initial cost savings of about \$250,000.00 per new hangar and life cycle cost avoidance of another \$250,000.00 per hangar.	Improved protection of aircraft maintenance workers from fire and explosions and from inhalation hazards during aircraft maintenance operations

<p>IH Dept., NH, Rota, Spain</p>	<p>Numerous respiratory illnesses and allergic reactions reported by workers in an office building. Indoor air quality investigation revealed fungus contamination in building's air handling system.</p> 	<p>Navy microbiologist identified fungal contaminants and recommended method for decontaminating building's air handling system and for preventing recontamination</p>	<p>Navy experts resolved indoor air quality incident, avoiding about \$9,000.00 in cost to bring consultants from U. S. to identify air contaminants and resolve this incident</p>	<p>Downtime and medical evaluation due to respiratory illnesses and allergic reactions. Building returned to normal levels after building decontaminated</p>
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